



# Practice Masters Level A

## 5.2 Introduction Solving to Quadratic Equations

Solve each equation. Give exact solutions.

1.  $x^2 - 49 = 0$

\_\_\_\_\_

2.  $4x^2 = 64$

\_\_\_\_\_

3.  $(x - 2)^2 = 100$

\_\_\_\_\_

4.  $2x^2 + 5 = 167$

\_\_\_\_\_

5.  $(x + 3)^2 = 25$

\_\_\_\_\_

6.  $3x^2 - 7 = 68$

\_\_\_\_\_

Solve each equation. Give exact solutions. Then approximate each solution to the nearest hundredth.

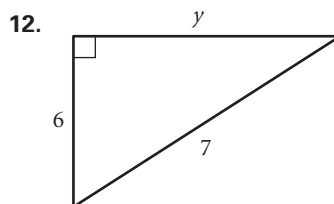
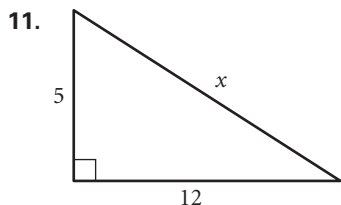
7.  $2x^2 - 5 = 12$  \_\_\_\_\_

8.  $x^2 + 10 = 9$  \_\_\_\_\_

9.  $4x^2 - 4 = 4$  \_\_\_\_\_

10.  $3x^2 + 5 = 30$  \_\_\_\_\_

Find the unknown length in each right triangle, to the nearest tenth.



Find the missing side length in right triangle XYZ. Give answers to the nearest tenth, if necessary.

13.  $x = 8$  and  $y = 15$  \_\_\_\_\_

14.  $y = 25$  and  $z = 7$  \_\_\_\_\_

15.  $x = 10$  and  $z = 12$  \_\_\_\_\_

16.  $x = 4$  and  $y = 8$  \_\_\_\_\_

17.  $x = 0.3$  and  $z = 0.4$  \_\_\_\_\_

